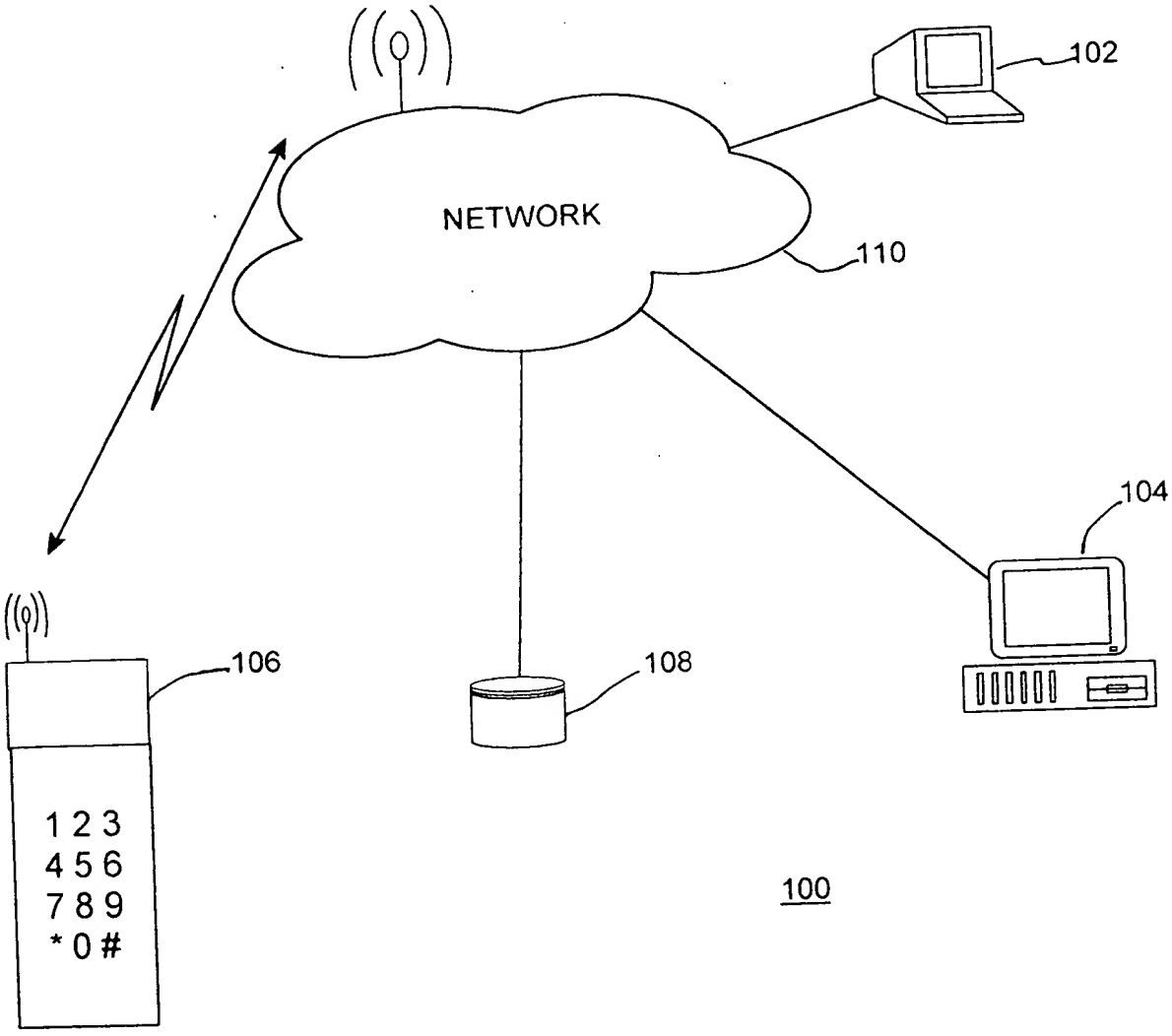

Fig. 1

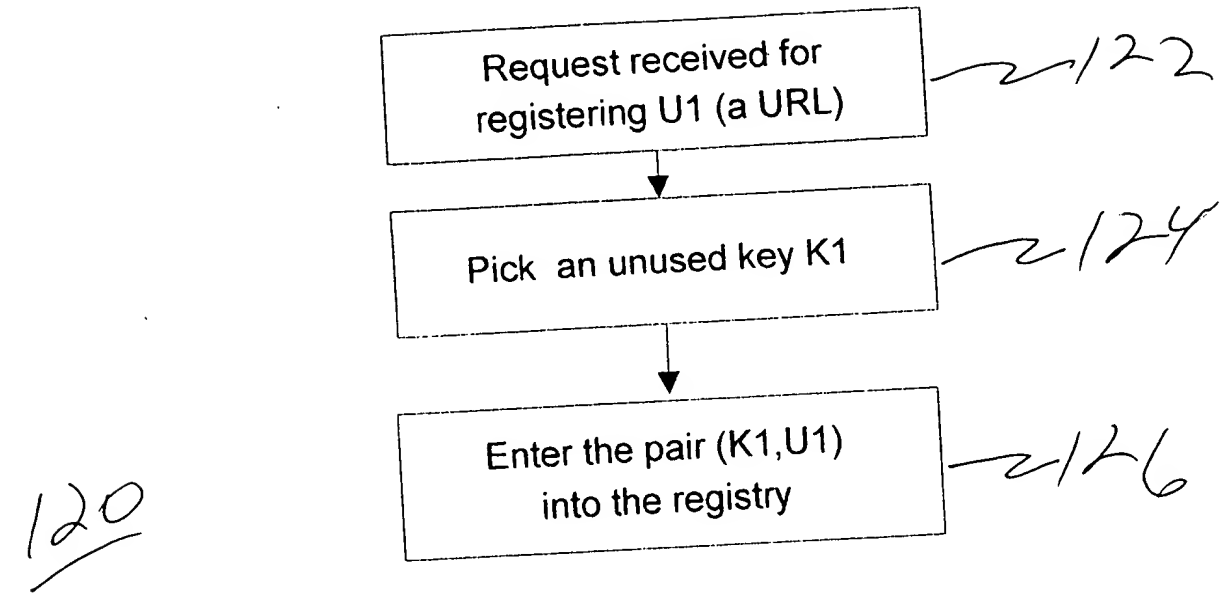
Request received for registering U1 (a URL)
122
Pick an unused key K1
124
Enter the pair (K1,U1) into the registry
126
120

FIG. 2

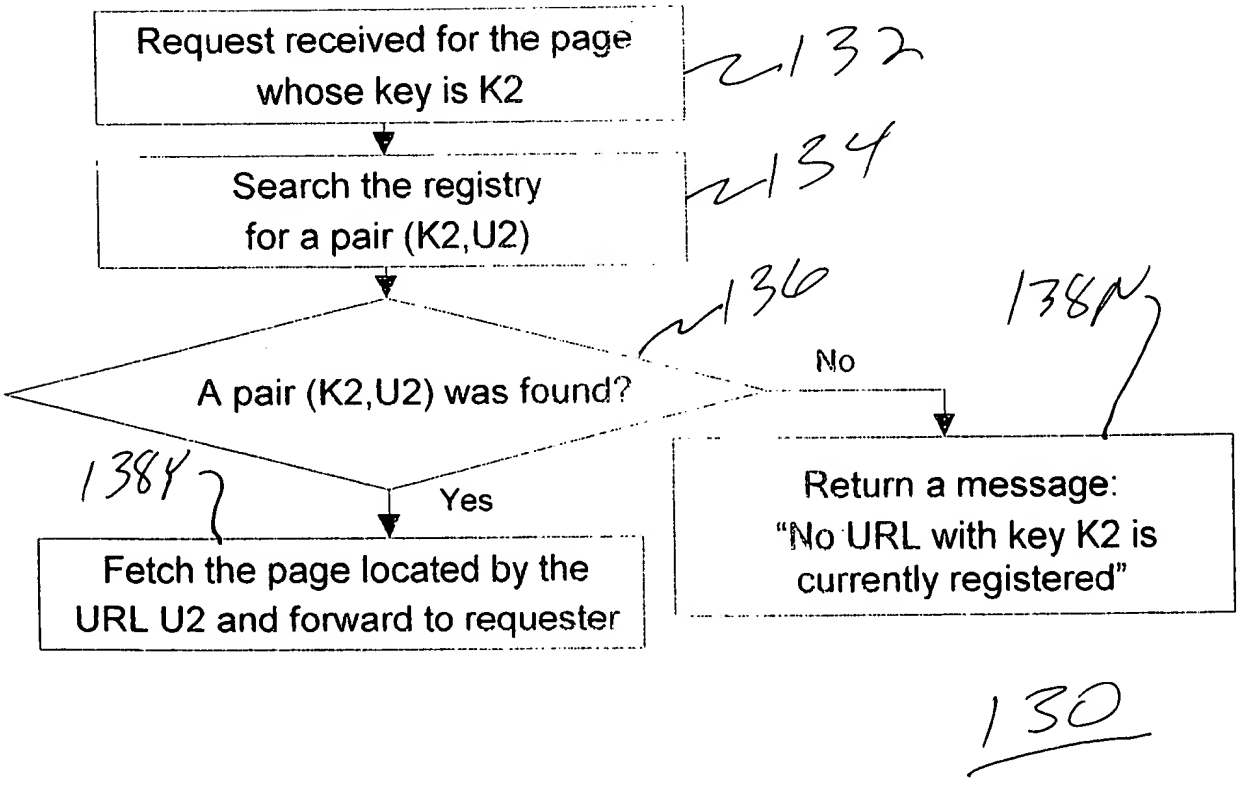
Request received for the page whose key is K2
132
Search the registry for a pair (K2,U2)
134
A pair (K2,U2) was found?
136
No
138N
Yes
138Y
Return a message: "No URL with key K2 is currently registered"
Fetch the page located by the URL U2 and forward to requester
130

FIG. 3

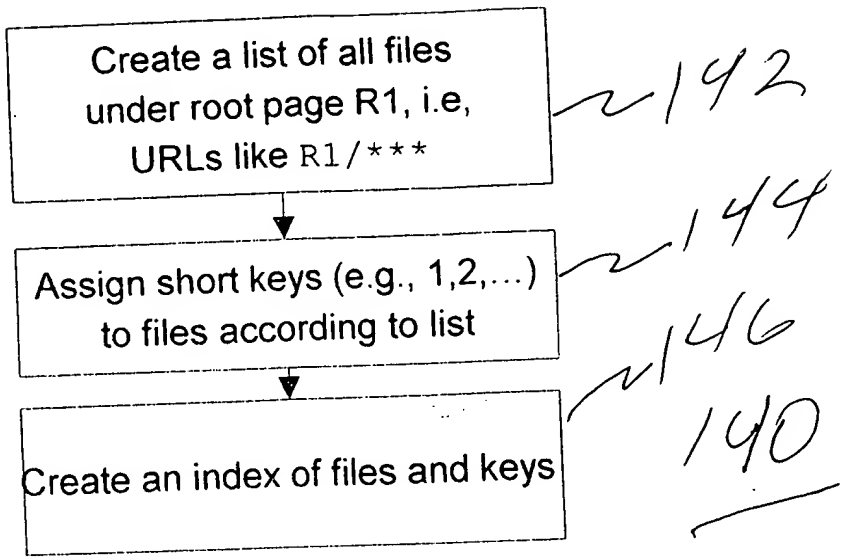
Create a list of all files under root page R1, i.e, URLs like R1/***
142
Assign short keys (e.g., 1,2,...) to files according to list
144
Create an index of files and keys
146
140

FIG. 4

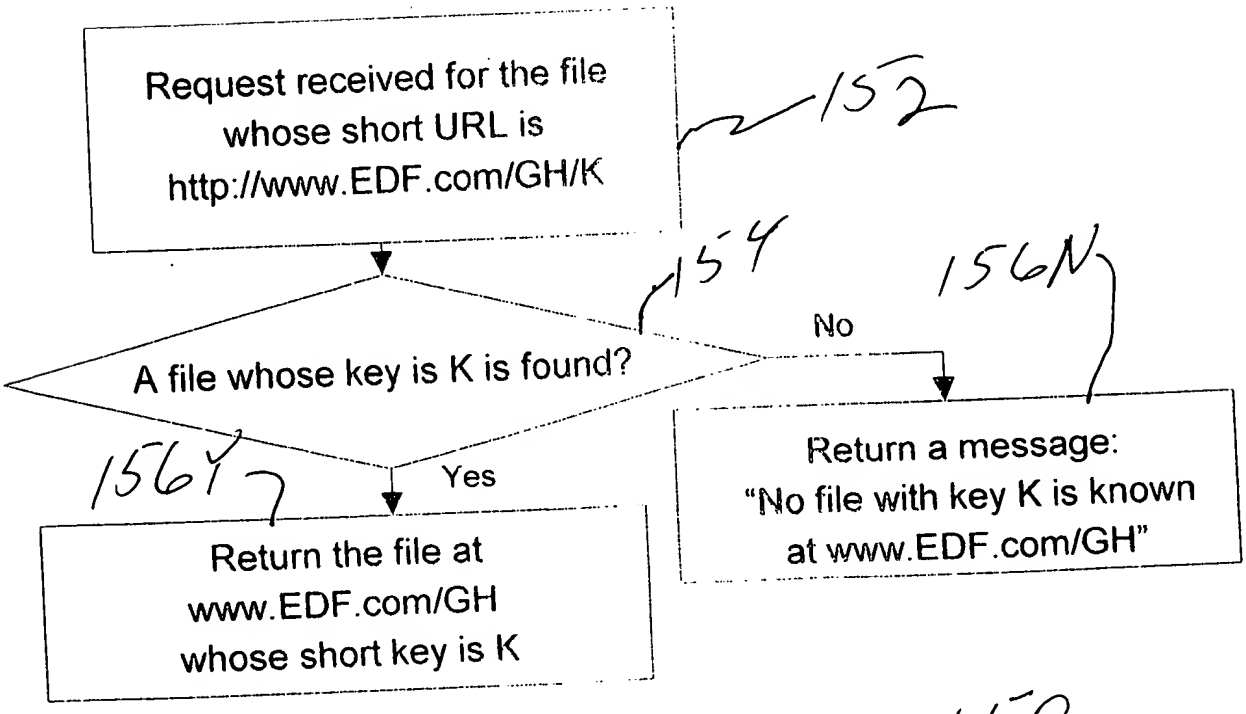
Request received for the file whose short URL is http://www.EDF.com/GH/K
152
A file whose key is K is found?
154
No
156N
Yes
156Y
Return a message: "No file with key K is known at www.EDF.com/GH"
Return the file at www.EDF.com/GH whose short key is K
150

FIG. 5